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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/007,677	11/13/2001	Andreas Stiegler	6471	9853
7590 09/16/2005			EXAMINER	
Samuels, Gauthier & Stevens LLP Suite 3300			WILLIAMS, HOWARD L	
225 Franklin Street Boston, MA 02110		ART UNIT	PAPER NUMBER	
			2819	

DATE MAILED: 09/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)				
Office Action Summers	10/007,677	STIEGLER ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Howard L. Williams	2819				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tinded to the second	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	— s action is non-final.					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
dioded in accordance with the practice under	Ex parte Quayre, 1999 G.D. 11, 4	55 0.0. 210.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5,9-15 and 17</u> is/are rejected.						
7) Claim(s) <u>6-8,16,18 and 19</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.	•				
Application Papers						
9) The specification is objected to by the Examin	er					
10)⊠ The drawing(s) filed on <u>13 November 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the E		- · · · · · · · · · · · · · · · · · · ·				
Priority under 35 U.S.C. § 119						
	a priority under 35 LLS C & 110/a) (d) or (f)				
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
,— ,— ,— <u> </u>	to have been received					
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
	• •					
3. Copies of the certified copies of the price	,	ad in this National Stage				
application from the International Burea	` ' ''					
* See the attached detailed Office action for a list	t or the certified copies not receive	; d.				
Attachment(s)						
) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
Paper No(s)/Mail Date						
1) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>030402</u> . 5) Notice of Informal Patent Application (PTO-152) 6) Other:						
		<u> </u>				

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Claim 4 is objected to because of the following informalities: In recitation of the frequency ratios the claim states at least a-times and less than (a - 1)-times. The use of "at least" and "less than" would seem to set an exclusive range rather than an inclusive range. Alternatively, perhaps (a+1) was intended? Appropriate correction is required.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 15 and 17 are rejected under 35 U.S.C. 102(b) as anticipated by Leicher et al. (DE 3604835 A1). Leicher appears to disclose a data transmission system that provides for sending a complete data word by dividing the complete word into two partial words and identifying one of the partial words by its order of significance with a single bit. In that Leicher discloses a data transmission system the provision of a source and a destination (source and sink) are presumed.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, 9-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leicher et al (DE 3604835 A1) in view of Cummins (US 6839013 B1). Leicher as before discloses a data transmission system using partial words with identification but does not

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disclose the digitization of an analog signal to be transmitted. Cummins et al. disclose

an ADC system that provides the result in partial words (see figure 2) and includes

channel identification bits but not high/low byte identification bit. It would have been

obvious to combine Cummins et al. and Leicher et al to show a digitized data

transmission system with provision to divide result into partial words in order to fit a

transmission bus because backward compatibility between new devices and older

devices with less capability is an important consideration.

Claims 6-8, 16, 18 and 19 are objected to as being dependent upon a rejected

base claim, but would be allowable if rewritten in independent form including all of the

limitations of the base claim and any intervening claims.

The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. Yoshihara (JP 62245356 A), Yoshioka et al. (JP 04236650 A)

and Moser (US 5257288 A) each disclose transmission of data in partial words.

Any inquiry concerning this communication should be directed to Howard L.

Williams at telephone number 571.272.1815. The Patent and Trademark Office has a

new central facsimile number for application specific correspondence intended for entry,

it is 571-273-8300.

9/14/05

Voice: (571) 272-1815

Howard L. Williams Primary Examiner

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